Amendment under 37 C.F.R. §1.111 Attorney Docket No. 062572 Application No. 10/585,141

AMENDMENTS TO THE DRAWINGS

Figs. 1 and 4 are amended herein. Fig. 1 has been amended to position the indication arrow as properly designating the film. Fig. 4 has been amended by removing Kanji characters from the drawing.

<u>REMARKS</u>

Claims 2, 3, 5, 6, and 10 are pending in the present application. Claims 2, 3, 5 and 6 are

herein amended. Claims 1, 4 and 7-9 are herein canceled without prejudice or disclaimer. New

claim 10 has been added. No new matter has been presented.

Correction to Figures

Although not objected to applicants have corrected informalities within the figures as

noted above. Applicants respectfully submit that no new matter has been entered.

Applicants' Response to the Claim Rejections under 35 U.S.C. §112

Claim 5 is rejected under 35 U.S.C. §112, second paragraph, as being indefinite on

the basis that the claim language utilizes "the" for non-previously identified terms and

refers to "the laminate" without including the identifying adjectives "flexible metal-clad"

there before.

In response thereto, applicants have amended claim 5 as suggested by the Examiner.

Applicants' Response to the Claim Rejections under 35 U.S.C. §102

Claims 1-2, 4, 6, and 8 are rejected under 35 U.S.C. §102(a) or (e) as being

anticipated by Dunbar et al (US 2004/0126600 Al).

- 6 -

In response thereto, applicants respectfully submit that Dunbar does not anticipate the

present invention as now claimed for at least the reason that Dunbar does not provide for each

and every feature of the claimed invention.

Specifically, Dunbar at least fails to provide for the feature of fixing both ends of the gel

film nor the film being transported in a state loosened in the TD direction such that a distance

between from one fixed end to a second fixed end of said both ends of gel film is smaller than a

width of the film in parent claim 6 as now presented.

The rejection primarily relies upon the disclosure describing the formation of the

polyimide film of Dunbar from paragraph [0050] to [0068] and the description of the formation

of the flexible circuit board at paragraphs [0069] to [0074].

Under U.S. law, rejections under 35 U.S.C. §102 require that the Examiner distinctly

provide for all the features of the claimed invention. "[U]nless a reference discloses within the

four corners of the document not only all of the limitations claimed but also all of the limitations

arranged or combined in the same way as recited in the claim, it cannot be said to prove prior

invention of the thing claimed and, thus, cannot anticipate under 35 U.S.C. § 102." Net MoneyIN,

Inc. v. VeriSign, Inc., 545 F.3d 1359, 1371 (Fed. Cir. 2008).

First, as to the fixing both ends of the gel film, paragraph [0061] of Dunbar does describe

that the film is unsupported and transported by pulling the film in the MD direction. There is no

clear description that both ends of the gel film are fixed in such a manner so as to allow the film

to be loosened in the TD direction. As described at paragraphs [0050] to [0053] of the current

application, the film is fixed at both ends in a manner that allows for the loosening in the TD

- 7 -

direction. As stated at paragraph [0052]: "[u]ssually, a film is tight with tension, and the

distance between the fixed ends of the film is equal to the film width between both end-fixing

points." This appears to be the case with the process of Dunbar which states that the film is

pulled so as to stretch in the MD direction during the first curing. Paragraph [0061] of Dunbar.

Thus, there is no loosening in the TD direction. Contrary, as set forth in paragraphs [0052] and

[0053] of the present specification "the distance between the fixed ends of the film is different

from the film width, the distance between the fixed ends being smaller."

As noted above, Dunbar does not specifically provide for the ends being loosened in this

manner. Rather, Dunbar requires tension so as to stretch the film in the MD direction during the

first curing process.

Wherefore, applicants respectfully submit that the present invention as now set forth in

parent claim 6 and its respective dependent claims, is not provided for in the disclosures of

Dunbar.

Applicants' Response to the Claim Rejections under 35 U.S.C. §102/103

Claims 3, 5, 7 and 9 are rejected under 35 U.S.C. 102(a) or (e) as anticipated by or,

in the alternative, under 35 U.S.C. 103(a) as obvious over Dunbar et al (US 2004/0126600.)

Applicants respectfully submit that as these claims depend from parent claim 6, by

addressing the rejection of the parent claim as detailed above, likewise these rejections should be

considered addressed by nature of their dependency.

-8-

Application No. 10/585,141

Furthermore, claim 6 as now asserted contains the feature of "laminating a metal foil with

a thermal roll laminator including at least one pair of metal rollers," which is not described in

Dunbar. The rejection acknowledges that Dunbar fails to recite such a thermal roll laminator

including at least one pair of metal rollers Page 3, lines 16-19 of the Office Action. As stated

therein: "the Examiner takes the position that the film and laminate taught by Dunbar would

inherently possess these same properties given that the materials and method of producing the

film and laminate as taught by Dunbar appear to be the same as the instant invention, or similar

enough for these properties to have been obvious to one having ordinary skill in the art at the

time of the invention." However, applicants respectfully submit that Dunbar does not provide

for this aspect of the present invention nor is it inherent to the disclosures thereof.

Specifically, a polyimide film oriented in the MD direction is obtained by carrying out

the steps (A) to (C), which are not described in Dunbar, of the method for producing a flexible

metal-clad laminate according to the present invention as now set forth in claim 6. When a metal

foil is laminated to the polyimide film, which is used as a core film, by a thermal lamination

method, the difference between a thermal stress occurring in the MD direction and a thermal

stress occurring in the TD direction of the adhesive film is suppressed, and a flexible metal-clad

laminate in which a change in dimensions in suppressed can be obtained (see paragraph [0056]

of the present patent application publication (US 2008/0050585 A1). The flexible metal-clad

laminate thus obtained by the present invention can solve conventional problems (poor

connections between components and boards) caused by a change in dimensions occurring in the

-9-

step of etching the metal foil and a change in dimensions occurring the subsequent heating step

(see paragraph [0007] of the present patent application publication (US 2008/0050585 A1)).

Wherefore, applicants respectfully submit that there is no manner whereby a skilled

artisan can derive this aspect of the claims now presented in parent claim 6.

Applicants' Response to the Double Patenting Rejection

Claims 1-9 are provisionally rejected on the ground of nonstatutory obviousness-

type double patenting as being unpatentable over claims 8-10, 13, 16, and 17 of copending

Application No. 11/663,622.

In response thereto, applicants have filed herewith a Terminal Disclaimer to Application

No. 11/663,622. Wherefore, applicants respectfully submit that the rejection is now moot.

In view of the aforementioned amendments and accompanying remarks, Applicants

submit that the claims, as herein amended, are in condition for allowance. Applicants request

such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the

Examiner is requested to contact Applicants' undersigned attorney to arrange for an interview to

expedite the disposition of this case.

- 10 -

Amendment under 37 C.F.R. §1.111 Attorney Docket No. 062572 Application No. 10/585,141

If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

Michael J. Caridi Attorney for Applicants Registration No. 56,171 Telephone: (202) 822-1100

Facsimile: (202) 822-1111

MJC/adp

Enclosures: Terminal Disclaimer for Application No. 11/663,622

Corrected Drawings, Figs. 1 and 4